

Title (en)

COMPOSITIONS AND METHODS RELATED TO ANIONIC CANNABINOID MOLECULES

Title (de)

ZUSAMMENSETZUNGEN UND VERFAHREN IN ZUSAMMENHANG MIT ANIONISCHEN CANNABINOIDMOLEKÜLEN

Title (fr)

COMPOSITIONS ET PROCÉDÉS SE RAPPORTANT À DES MOLÉCULES CANNABINOÏDES ANIONIQUES

Publication

**EP 3893673 A4 20230503 (EN)**

Application

**EP 19895993 A 20191212**

Priority

- US 201862780169 P 20181214
- US 201862780176 P 20181214
- US 201862780178 P 20181214
- US 201962787720 P 20190102
- US 201962787717 P 20190102
- US 201962787722 P 20190102
- US 201916239463 A 20190103
- US 201962812845 P 20190301
- US 201962812849 P 20190301
- US 201962860223 P 20190611
- US 201916440878 A 20190613
- US 201916440889 A 20190613
- US 201962867207 P 20190626
- US 201962928941 P 20191031
- US 201962933748 P 20191111
- US 201962935484 P 20191114
- US 2019065987 W 20191212

Abstract (en)

[origin: WO2020123976A1] This patent document discloses compositions and methods related to anionic cannabinoid molecules that contain oxide substituents.

IPC 8 full level

**A61K 9/00** (2006.01); **A23L 2/38** (2021.01); **A23L 33/105** (2016.01); **A61K 9/08** (2006.01); **A61K 31/00** (2006.01); **A61K 31/05** (2006.01); **A61K 31/055** (2006.01); **A61K 31/352** (2006.01); **A61K 36/00** (2006.01); **A61K 36/185** (2006.01); **A61K 47/02** (2006.01); **A61K 47/10** (2017.01)

CPC (source: EP US)

**A23L 2/38** (2013.01 - EP US); **A23L 2/52** (2013.01 - US); **A23L 29/035** (2016.07 - US); **A23L 33/105** (2016.07 - EP US); **A61K 9/0095** (2013.01 - EP); **A61K 9/08** (2013.01 - EP); **A61K 31/00** (2013.01 - EP); **A61K 31/05** (2013.01 - EP); **A61K 31/055** (2013.01 - EP); **A61K 31/352** (2013.01 - EP); **A61K 36/185** (2013.01 - EP US); **A61K 47/02** (2013.01 - EP); **A61K 47/10** (2013.01 - EP); **A23V 2002/00** (2013.01 - US); **A23V 2250/2132** (2013.01 - US); **A61K 9/0053** (2013.01 - EP)

Citation (search report)

- [XP] EP 3459536 A1 20190327 - KROTOV VADYM [NL]
- [X] US 2017224634 A1 20170810 - VANGARA KIRAN KUMAR [US], et al
- [A] US 2015231108 A1 20150820 - HEARN ALEX [GB], et al
- [XI] MICHAEL STARKS: "MARIJUANA CHEMISTRY Genetics, Processing & Potency", 1 September 1993 (1993-09-01), XP055496521, Retrieved from the Internet <URL:https://catnews.org/FREE%20Pot%20Books/Marijuana%20Chemistry%20-%20Genetics,%20Processing,%20&%20Potency%20-%20Michael%20Starks.pdf> [retrieved on 20180801]
- See references of WO 2020123809A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2020123976 A1 20200618**; **WO 2020123976 A9 20200910**; AU 2019397508 A1 20210624; BR 112021011509 A2 20210831; EP 3893673 A1 20211020; EP 3893673 A4 20230503; JP 2022512409 A 20220203; US 2022071256 A1 20220310; WO 2020123809 A1 20200618

DOCDB simple family (application)

**US 2019066281 W 20191213**; AU 2019397508 A 20191212; BR 112021011509 A 20191212; EP 19895993 A 20191212; JP 2021533560 A 20191212; US 2019065987 W 20191212; US 201917413452 A 20191212